

Rewards:

First prize Rs. 20,000/- (in each category).
Second prize Rs. 15,000/- (in each category).
Third prize 10,000/- (in each category).
Total Prize Money Worth Rs. 90,000/-

Along with attractive trophies and professionally designed certificates. Prototypes recommended by experts will be fully sponsored for filing Intellectual Property Rights (IPR) in collaboration with JIS College of Engineering, subject to the participants' consent. If participants agree, the PATENT will be filed for publication accordingly.

Registration Fees:

Registration Fee: Rs. 500/- per Team (up to 4 Members) and Rs. 100/- for each additional member (if any). Participants requiring hostel accommodation must request it during registration (only for long-distance participants).

Registration fee



UPI Id : ani2301sbi@ibl

Upload the payment details in the Registration form link below



<https://forms.gle/9ZaNeT7MAPS6L3DD8>

Important Dates:

Registration Opens: 01.06.2025
Last date of registration: 20.07.2025

EmbedTronics

Projects related to Robotics, Automation, Embedded Systems, and IoT, including but not limited to:

- IoT & AI powered Smart Home or Smart City Solutions
- IoT-Based Environmental Monitoring
- Agricultural Automation Tools
- Home Security Systems
- Sensor-Based Automation Systems
- Humanoid Robots
- Sustainable Irrigation or Water Purification Systems
- Industrial Automation Prototypes
- Miscellaneous Innovations in Embedded Technologies

EnerTronix

Projects emphasizing Renewable Energy, Sustainability, and Mechatronic Systems, including but not limited to:

- Solar-Powered Gadgets or Appliances
 - Energy Harvesting Devices
 - Portable Wind or Hydro Generators
 - IoT & AI powered Smart Measurement or Monitoring Tools
 - Automated Test Rigs or Simulators
 - Motor Control Systems and Actuators
 - Autonomous Drones or Vehicles
 - Wearable Health Monitors
 - Miscellaneous Innovations in Green Tech and Mechatronics
- Rewards:

Organizing Committee:

Chief Patron

Sardar Taranjit Singh
Managing Director, JIS group

Patron

Sardar Simarpreet Singh
Director, JIS Group

Mr. U. S. Mukherjee
Dy. Director, JIS Group

Mentor

Prof.(Dr.) Partha Sarkar
Chief Mentor, AICTE IDEA LAB
Principal, JIS College of Engineering

Convenor

Dr. Moumita Pal
Associate Professor & HOD (ECE)
JIS College of Engineering

Joint Secretary-

Dr. Indranath Sarkar & Mr. Anirban Ghosal

Advisors-

Dr. Sandip Ghosh, Director-IQAC
Dr. Biswarup Neogi, Dean R&D
Dr. Soumyabrata Saha, HoD, IT
Dr. Debasish Sanki, Deputy Registrar

Registration -

Ms. Ranjana Ray, Ms. Munmun Pramanik,
Ms. Sampa Mahato

Printing and Publicity - Mr. Sourish Halder

Finance - Dr. Anirban Patra

Hospitality & Refreshment -

Mr. Aniruddha Ghosh, Mr. Surojit Bhowmik,
Mr. Rajib Sengupta, Mr. Sanjit Das

Venue Preparation (Stage) -

Dr. Madhura Chakraborty, Ms. Ranjana Ray,
Ms. Sampa Mahato

Venue Preparation (Project Exhibition) -

Mr. Kunal Nag, Mr. Sourish Halder, Mr. Surojit Bhowmik

Transport - Mr. Mainuck Das, Mr. Rajib Sengupta

Program Coordination -

Dr. Moumita Pal, Dr. Indranath Sarkar,
Mr. Anirban Ghosal, Mr. Kunal Nag

Accommodation -

Dr. Madhura Chakraborty, Mr. Nirmal Biswas,
Mr. Debasish Karan, Ms. Shukla Bhattacharjee

Medical Arrangement- Mr. Rajib Sengupta

Evaluation - Dr. Madhura Chakraborty, Ms. Ranjana Ray

Sponsorship - Dr. Madhura Chakraborty, Mr. Anirban Ghosal

Name of the Contact Person:

Dr. Indranath Sarkar (Mob: 8240533192)
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JIS COLLEGE OF ENGINEERING

PRESENTS

"ENGINEUITY"

Hardware
Engineering
Model
Competition

8th - 9th August 2025

AS PART OF THE
GLORIOUS JOURNEY OF
25 YEARS



VENUE: JIS COLLEGE OF ENGINEERING, KALYANI



EVENT PORTAL QR



About the Institute

JIS College of Engineering is the flagship Institute under JIS Group Educational Initiative spearheading professional education for over two decades (Established in the year 2000) with wide spectrum of professional programs accompanied by state of the art academic resources. JIS College of Engineering is located in the academic and industrial hinterland of Kalyani. Institute earned the highest laurels in terms of accreditation by NAAC – 'A' Grade, NBA, and AICTE. The college is also in NIRF ranking prepared by Department of Higher Education, MoE, Govt. of India. The Institute offers courses that are approved by AICTE and affiliated to MAKAUT (formerly WBUT). The Institution has been awarded autonomous status by UGC in the academic year 2011-12, which makes it the first of its kind in West Bengal. The digital learning initiatives of JIS College of Engineering has been endorsed by AICTE & The World Bank Group as India's first fully Flipped Institute in the year 2018. In addition to IPR publishing, students at JIS College of Engineering are actively involved in organizing various events through institutional student chapters under IEI, IEEE etc.



Objective:

The primary objective of ENGINEITY 2025 is to foster innovation and technical excellence among engineering students by providing a competitive and collaborative platform for showcasing hardware-based engineering models and prototypes. The event aims to encourage problem-solving, creativity, and interdisciplinary thinking by addressing real-world technological challenges through hands-on solutions. Additionally, ENGINEITY seeks to promote knowledge exchange, peer learning, and industry-academia interaction through keynote talks, exhibitions, and interactive sessions.

This competition aims to:

- Promote Innovation and Technical Creativity among engineering students.
- Encourage Hands-on Learning through real-world problemsolving.
- Identify and nurture talent in emerging domains like IoT, Embedded Systems, Automation, and Renewable Energy.

Expected Outcome:

- **Showcase of Innovation:** Participants will present functional hardware prototypes that demonstrate creative and practical engineering solutions to real-life problems.
- **Skill Development:** Students will enhance their technical, analytical, and presentation skills by participating in a competitive, project-based environment.
- **Collaboration and Networking:** The event will facilitate collaboration among participants from different institutions and foster connections with experts, academicians, and industry professionals.
- **Recognition of Talent:** Outstanding projects will be recognized and awarded, motivating students to pursue further research and innovation.
- **Knowledge Enrichment:** Keynote sessions and exhibitions will provide insights into emerging technologies and industry trends, enriching the learning experience for all attendees.
- **Promotion of Research Culture:** The competition will inspire a culture of applied research and development within academic institutions.

Rules and Regulations:

1. A Project Group can include members from different colleges.
2. Same Team Leader cannot lead more than one team.
3. All participants must register online before the deadline. Late entries will be accepted, with an additional charge.
4. Participants can use any materials except for pre-made kits or fully assembled models. All components must be sourced and assembled independently.
5. Each team must prepare a brief presentation (Maximum 5 minutes) to explain their model's functionality and design process.
6. Every team member must carry their College ID, a valid Government ID, and a copy of the registration receipt.
7. Models should be stable, demonstrable, and built to withstand basic handling for judging and presentation.
8. Participants requiring hostel accommodation must request it during registration (only for participants from other state and district far away from Nadia).
9. Judges' decisions will be final.
10. 100% Software-based projects will not be accepted. Models must involve a combination of hardware and software integration. Software projects without hardware are disqualified.
11. The model should be safe to operate and must not involve any hazardous materials, open flames, or high-voltage elements without proper insulation.
12. Teams are responsible for bringing all required tools and equipment. Organizers will not provide any hardware or support tools.